

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 June 2005 (23.06.2005)

PCT

(10) International Publication Number
WO 2005/056277 A1

(51) International Patent Classification⁷: **B29D 30/46**,
B29C 53/60

(21) International Application Number:
PCT/IT2003/000807

(22) International Filing Date: 9 December 2003 (09.12.2003)

(25) Filing Language: Italian

(26) Publication Language: English

(71) Applicant (for all designated States except US): **PIRELLI PNEUMATICI S.P.A.** [IT/IT]; Viale Sarca, 222, I-20126 Milano (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LACAGNINA, Claudio** [IT/IT]; c/o Pirelli Pneumatici S.p.A., 222, Viale Sarca, I-20126 Milano (IT).

(74) Agent: **TANSINI, Elio, Fabrizio**; c/o Bugnion S.P.A., Viale Lancetti, 17, I-20158 Milano (IT).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

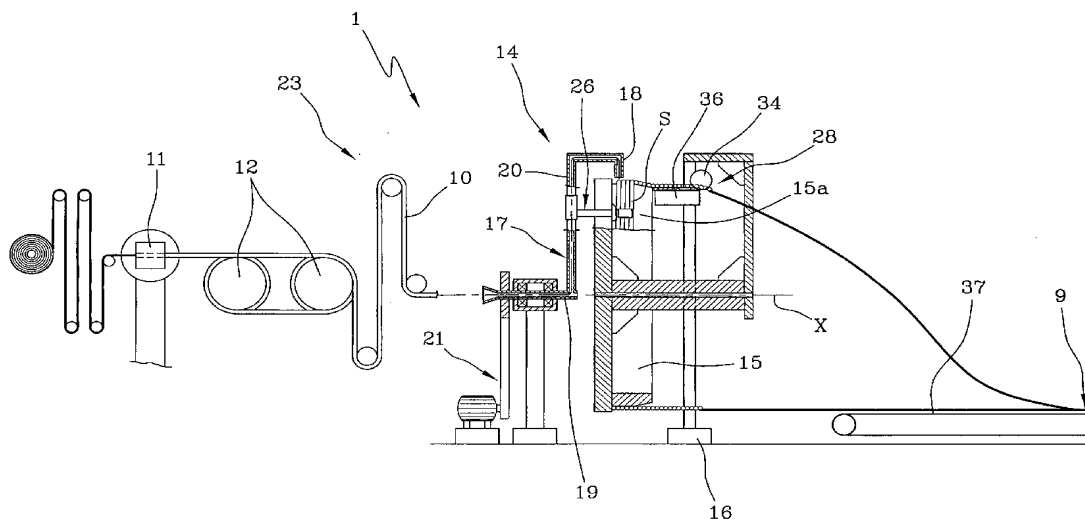
(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A PROCESS AND APPARATUS FOR PRODUCING A SEMIFINISHED PRODUCT FOR MANUFACTURING TYRES FOR VEHICLE WHEELS



(57) Abstract: A continuous elongated element (10) coming from an extruder (11) or a supply reel (1.3) is wound into coils (S) disposed consecutively close to each other on a cylindrical forming support (15). A pusher element (27) urges each coil (S) formed on the forming support (15) against the previously formed coils (S), causing translation of same to a cutter (34). Following cutting of the coils (S) a continuous semifinished product (9) is obtained which has elongated reinforcing elements disposed parallel and close to each other and transversely of the longitudinal extension of the semifinished product itself.

WO 2005/056277 A1